			AU /
	Application No.	Applicant(s)	
Notice of Allowability	10/716,230	MELIK-MARTIROSIAN ET AL.	
	Examiner	Art Unit	
	David Lam	2818	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL- NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 85) or other appropriate common RIGHTS. This application is s	n this application. If not in unication will be mailed in	cluded due course. THIS
1. This communication is responsive to			
2. 🔀 The allowed claim(s) is/are <u>1-20</u> .			
3. $igotimes$ The drawings filed on <u>18 November 2003</u> are accepted	by the Examiner.		•
4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents h. 2. Certified copies of the priority documents h. 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ave been received. ave been received in Application documents have been receive "E" of this communication to file	on No d in this national stage ap	
 A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which g 			or NOTICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") r (a) ☐ including changes required by the Notice of Draftsp 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examin Paper No./Mail Date Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such	person's Patent Drawing Review ner's Amendment / Comment or R 1.84(c)) should be written on t	r in the Office action of he drawings in the front (no	ot the back) of
 DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMENT 	PPOSIT OF BIOLOGICAL MAT NT FOR THE DEPOSIT OF BIO	ERIAL must be submitt DLOGICAL MATERIAL.	ed. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-94 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/S	8) 6. 🗌 Interview S Paper No.	oformal Patent Application ummary (PTO-413), /Mail Date Amendment/Comment	(PTO-152)
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Depos of Biological Material		Statement of Reasons fo	r Allowance
o, biological material	J		

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PRIMARY EXAMMER

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Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance: Claims 1-20 are allowable over the prior art of record because none of the prior art whether taken singularly or in combination, especially when these limitations are considered within the specific combination claimed, to teach: method and apparatus of a semiconductor memory device comprising: a non-conductive charge trapping layer, among others as claimed in independent claim 1, disposed over a bottom dielectric layer and operatively configured to have at least two independent charge storing regions; charge trapping dielectric, among others as claimed in independent claim 10, having at least five dielectric layers formed over a body region and including a non-conductive charge trapping layer. Method of operating the memory device comprising step of applying a voltage about +3 voltage to about +5 voltage to first bitline/drain, and among others steps as claimed in claims 8, 18, 20.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Yeh et al. (6,690,601) disclose a nonvolatile semiconductor memory cell with electron-trapping erase state and methods for operating.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lam whose telephone number is 571-272-1782. The examiner can normally be reached on 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Lam

January 19, 2005

DAVID LAM
PRIMARY EXAMMER